Y3.N21^{5}:2R29/939

NATIONAL ADVISORY COMMITTEE FOR AERONAUTICS

LIST OF REPORTS

WITH PRICES

EDITION DECEMBER 1939

NATIONAL ADVISORY COMMITTEE FOR AERONAUTICS

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EDITION DECEMBER 1939

UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON: 1939

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NATIONAL ADVISORY COMMITTEE FOR AERONAUTICS

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651	Downwash and Wake Behind Plain and Flapped Airfoils. By Abe Silverstein, S. Katzoff, and W. Kenneth Bullivant. (Twenty-fifth Annual, 1939)	. 15
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661	Tests in the Variable-Density Wind Tunnel of the N. A. C. A. 23012 Airfoil with Plain and Split Flaps. By Ira H. Abbott and Harry Greenberg. (Twenty-fifth Annual, 1939)	. 10
664	Wind-Tunnel Investigation of an N. A. C. A. 23012 Airfoil with Various Arrangements of Slotted Flaps. By Carl J. Wenzinger and Thomas A. Harris. (Twenty-fifth Annual, 1939)	. 15
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AIRFOILS AND WING SECTIONS—Continued

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677	Wind-Tunnel Investigation of an N. A. C. A. 23021 Airfoil with Various Arrangements of Slotted Flaps. By Carl J. Wenzinger and Thomas A. Harris. (Twenty-fifth Annual, 1939)	.10
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AIRPLANES—FULL-SCALE EXPERIMENTS

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[3] 69	A Study of Airplane Ranges and Useful Loads. By J. G. Coffin. (Fifth Annual, 1919) Part I. Numerical Analysis. Part II. Theoretical Analysis. Part III. Effect of Wind on Range.	------
[3] 70	Preliminary Report on Free Flight Tests. By E. P. Warner and F. H. Norton. (Fifth Annual, 1919)	------
[3] 105	Angles of Attack and Air Speeds during Maneuvers. By E. P. Warner and F. H. Norton. (Sixth Annual, 1920)	------
[3] 118	The Pressure Distribution over the Horizontal Tail Surfaces of an Airplane. By F. H. Norton. (Seventh Annual, 1921)	----

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AIRPLANES—FULL-SCALE EXPERIMENTS—Continued

No.	Title	Price
[3] 148	The Pressure Distribution over the Horizontal Tail Surfaces of an Airplane, III. By F. H. Norton and W. G. Brown. (Eighth Annual, 1922)	------
[3] 149	Pressure Distribution over the Rudder and Fin of an Airplane in Flight. By F. H. Norton and W. G. Brown. (Eighth Annual, 1922)	------
[3] 154	A Study of Taking Off and Landing an Airplane. By T. Carroll. (Eighth Annual, 1922)	------
[3] 155	A Study of Airplane Maneuvers with Special Reference to Angular Velocities. By H. J. E. Reid. (Eighth Annual, 1922)	------
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[3] 192	Charts for Graphical Estimation of Airplane Performance. By Walter S. Diehl. (Tenth Annual, 1924)	------
[3] 193	Pressure Distribution Over the Wings of an MB–3 Airplane in Flight. By F. H. Norton. (Tenth Annual, 1924)	------
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[3] 249	A Comparison of the Take-off and Landing Characteristics of a Number of Service Airplanes. By Thomas Carroll. (Twelfth Annual, 1926)	------
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AIRPLANES—FULL-SCALE EXPERIMENTS—Continued

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AIRPLANES—MODEL EXPERIMENTS—Continued

No.	Title	Price
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507	Tests of Nacelle-Propeller Combinations in Various Positions with Reference to Wings. VI—Wings and Nacelles with Pusher Propeller. By Donald H. Wood and Carlton Bioletti. (Twentieth Annual, 1934)	.10
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AIRPLANES—MODEL EXPERIMENTS—Continued

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451	The Drag of Two Streamline Bodies as Affected by Protuberances and Appendages. By Ira H. Abbott. (Nineteenth Annual, 1933)	. 05
566	Ground-Handling Forces on a 1/40-Scale Model of the U. S. Airship "Akron." By Abe Silverstein and B. G. Gulick. (Twenty-second Annual, 1936)	. 10
604	Pressure-Distribution Measurements at Large Angles of Pitch on Fins of Different Span-Chord Ratio on a 1/40-Scale Model of the U. S. Airship "Akron." By James G. McHugh. (Twenty-third Annual, 1937)	. 10

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[1] 7	Thermodynamic Efficiency of Present Types of Internal Combustion Engines for Aircraft. By Charles E. Lucke, Columbia University. (First Annual, 1915) Part I. Review of the Development of Engines Suitable for Aeronautic Service. Part II. Aero Engines Analyzed with Reference to Elements of Process or Function.	------
[1] 10	Mufflers for Aeronautic Engine. By H. Diederichs and G. B. Upton. (Second Annual, 1916)	------
[1] 11	Carburetor Design—A Preliminary Study of the State of the Art. By Charles Edward Lucke, assisted by Friederich Otto Willhöfft. (Second Annual, 1916)	------
[1] 23	Aeronautic Power-Plant Investigations. By the Subcommittee on Power Plants. (Third Annual, 1917) Part I. Performance of Aeronautic Engines at High Altitudes. Part II. Radiator Design. Part III. Spark Plugs.	------
[3] 24	Air Flow through Poppet Valves. By E. M. Nutting and G. W. Lewis. (Fourth Annual, 1918)	------
[3] 43	Synopsis of Aeronautic Radiator Investigations for the years 1917 and 1918. By H. C. Dickinson and R. V. Kleinschmidt. (Fourth Annual, 1918)	------
[3] 45	Effect of Compression Ratio, Pressure, Temperature, and Humidity on Power. (Fourth Annual, 1918) Part I. Variation of Horsepower with Altitude and Compression Ratio, By H. C. Dickinson, W. S. James, and G. V. Anderson. Part II. Value of Supercharging. By H. C. Dickinson and G. V. Anderson. Part III. Variation of Horsepower with Temperature. By H. C. Dickinson, W. S. James, and G. V. Anderson. Part IV. Influence of Water Injection on Engine Performance. By V. W. Brinkerhoff.	------

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[3] 46	A Study of Airplane Engine Tests. By Victor R. Gage. (Fourth Annual, 1918)	------
[3] 48	Carbureting Conditions Characteristic of Aircraft Engines. By Percival S. Tice. (Fourth Annual, 1918)	------
[3] 49	Metering Characteristics of Carburetors. (Fourth Annual, 1918) Part I. Description of Carburetor Test Plant. By Percival S. Tice. Part II. Discharge Characteristics of Fuel Metering Nozzles in Carburetors. By Percival S. Tice. Part III. Characteristics of Air Flow in Carburetors. By Percival S. Tice. Part IV. Effects of Pulsating Air Flow in Carburetors. By Percival S. Tice and H. C. Dickinson. Part V. Natural and Required Metering Characteristics of Carburetors. By Percival S. Tice. Part VI. Control of Carburetor Metering Characteristics for Aircraft Service. By Percival S. Tice and H. C. Dickinson.	------
[3] 51	Spark Plug Defects and Tests. (Fifth Annual, 1919) Part I. Causes of Failure of Spark Plugs. By F. B. Silsbee. Part II. Gas Leakage in Spark Plugs. By L. B. Loeb, L. G. Sawyer, and E. L. Fonseca. Part III. Methods for Testing Spark Plugs. By H. C. Dickinson, F. B. Silsbee, and P. G. Agnew.	------
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[3] 53	Properties and Preparation of Ceramic Insulators for Spark Plugs. (Fifth Annual, 1919) Part I. Methods of Measuring Resistance of Insulators at High Temperatures. By F. B. Silsbee and R. K. Honaman. Part II. Electrical Resistance of Various Insulating Materials at High Temperatures. By R. K. Honaman and E. L. Fonseca.	------

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[3] 54	Effect of Temperature and Pressure on the Sparking Voltage. By L. B. Loeb and F. B. Silsbee. (Fifth Annual, 1919)	------
[1] 55	Investigation of the Muffling Problem for Airplane Engines. By G. B. Upton and V. R. Gage. (Fifth Annual, 1919)	------
[3] 56	Heat Energy of Various Ignition Sparks. (Fifth Annual, 1919)	------
	Part I. Method of Measuring Heat Energy of Ignition Sparks. By F. B. Silsbee, L. B. Loeb, and E. L. Fonseca. Part II. Measurement of Heat Energy per Spark of Various Ignition Systems. By F. B. Silsbee and E. L. Fonseca.	
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[3] 58	Characteristics of High-Tension Magnetos. By F. B. Silsbee. (Fifth Annual, 1919)	------
	Part I. Cycle of Operation of Jump-Spark Ignition Systems. Part II. Transformation Ratio and Coupling in High-Tension Magnetos.	
59	General Analysis of Airplane Radiator Problems. By H. C. Dickinson, W. S. James, and R. V. Kleinschmidt. (Fifth Annual, 1919)	$.05
60	General Discussion of Test Methods for Radiators. By H. C. Dickinson, W. S. James, and W. B. Brown. (Fifth Annual, 1919)	.10

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[3] 63	Results of Tests on Radiators for Aircraft Engines. (Fifth Annual, 1919) Part I. Heat Dissipation and other Properties of Radiators. By H. C. Dickinson, W. S. James, and R. V. Kleinschmidt. Part II. Water Flow through Radiator Cores. By W. S. James.	------
[3] 86	Properties of Special Types of Radiators. By S. R. Parsons. (Sixth Annual, 1920)	------
[3] 87	Effects of Nature of Cooling Surface on Radiator Performance. By S. R. Parsons, and R. V. Kleinschmidt. (Sixth Annual, 1920)	------
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[3] 101	The Calculated Performance of Airplanes Equipped with Supercharging Engines. By E. C. Kemble. (Sixth Annual, 1920)	------
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[3] 103	Performance of a 300-Horsepower Hispano-Suiza Airplane Engine. By S. W. Sparrow and H. S. White. (Sixth Annual, 1920)	------
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[3] 135	Performance of B. M. W. 185-Horsepower Airplane Engine. By S. W. Sparrow. (Eighth Annual, 1922)	------
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[3] 187	Flame Speed and Spark Intensity. By D. W. Randolph and F. B. Silsbee. (Tenth Annual, 1924)	------
[3] 189	Relation of Fuel-Air Ratio to Engine Performance. By Stanwood W. Sparrow. (Tenth Annual, 1924)	------
[3] 190	Correcting Horsepower Measurements to a Standard Temperature. By Stanwood W. Sparrow. (Tenth Annual, 1924)	------
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[3] 239	Power Output and Air Requirements of a Two-Stroke Cycle Engine for Aeronautical Use. By C. R. Paton and Carlton Kemper. (Twelfth Annual, 1926)	------
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[3] 243	A Preliminary Study of Fuel Injection and Compression Ignition as Applied to an Aircraft Engine Cylinder. By Arthur W. Gardiner. (Twelfth Annual, 1926)	------
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[3] 261	Resistance and Cooling Power of Various Radiators. By R. H. Smith. (Thirteenth Annual, 1927)	------
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433	Rates of Fuel Discharge as Affected by the Design of Fuel-Injection Systems for Internal-Combustion Engines. By A. G. Gelalles and E. T. Marsh. (Eighteenth Annual, 1932)----	. 05
435	Fuel Vaporization and its Effect on Combustion in a High-Speed Compression-Ignition Engine. By A. M. Rothrock and C. D. Waldron. (Eighteenth Annual, 1932)------------------	. 10
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556	Further Studies of Flame Movement and Pressure Development in an Engine Cylinder. By Charles F. Marvin, Jr., Armistead Wharton, and Carl H. Roeder. (Twenty-second Annual, 1936)	. 10
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657	The Influence of Directed Air Flow on Combustion in a Spark-Ignition Engine. By A. M. Rothrock and R. C. Spencer. (Twenty-fifth Annual, 1939)	. 10
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683	Correlation of Cooling Data from an Air-Cooled Cylinder and Several Multicylinder Engines. By Benjamin Pinkel and Herman H. Ellerbrock, Jr. (Twenty-Sixth Annual, 1940)	------

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[3] 47	Power Characteristics of Fuels for Aircraft Engines. (Fourth Annual, 1918) Part I. Power Characteristics of Aviation Gasoline. By H. C. Dickinson, W. S. James, E. W. Roberts, V. R. Gage, and D. R. Harper. Part II. Power Characteristics of Sumatra and Borneo Gasolines. By E. W. Roberts. Part III. Power Characteristics of 20 per cent Benzol Mixture. By E. W. Roberts.	------
89	Comparison of Alcogas Aviation Fuel with Export Aviation Gasoline. By V. R. Gage, S. W. Sparrow, and D. R. Harper. (Sixth Annual, 1920)	$0. 05
90	Comparison of Hector Fuel with Export Aviation Gasoline. By H. C. Dickinson, V. R. Gage, and S. W. Sparrow. (Sixth Annual, 1920)	. 05
232	Fuels for High-Compression Engines. By Stanwood W. Sparrow. (Eleventh Annual, 1925)	. 10

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280	The Gaseous Explosive Reaction—The Effect of Inert Gases. By F. W. Stevens. (Thirteenth Annual, 1927)	$0.10
305	The Gaseous Explosive Reaction—A study of the Kinetics of Composite Fuels. By F. W. Stevens. (Fourteenth Annual, 1928)	.15
321	Fuel Vapor Pressures and the Relation of Vapor Pressure to the Preparation of Fuel for Combustion in Fuel Injection Engines. By W. F. Joachim and A. M. Rothrock. (Fifteenth Annual, 1929)	.10
337	The Gaseous Explosive Reaction at Constant Pressure—The Reaction Order and Reaction Rate. By F. W. Stevens, (Sixteenth Annual, 1930)	.10
372	The Gaseous Explosive Reaction—The Effect of Pressure on the Rate of Propagation of the Reaction Zone and upon the Rate of Molecular Transformation. By F. W. Stevens. (Seventeenth Annual, 1931)	.15
476	Relation of Hydrogen and Methane to Carbon Monoxide in Exhaust Gases from Internal-Combustion Engines. By Harold C. Gerrish and Arthur M. Tessmann. (Twentieth Annual, 1934)	.05
531	The Effect of Water Vapor on Flame Velocity in Equivalent CO–O_2 Mixtures. By Ernest F. Fiock and H. Kendall King. (Twenty-first Annual, 1935)	.05
532	The Soap-Bubble Method of Studying the Combustion of Mixtures of CO and O_2. By Ernest F. Fiock and Carl H. Roeder. (Twenty-first Annual, 1935)	.05
535	Hydrogen as an Auxiliary Fuel in Compression-Ignition Engines. By Harold C. Gerrish and Hampton H. Foster. (Twenty-first Annual, 1935)	.10
553	Some Effects of Argon and Helium Upon Explosions of Carbon Monoxide and Oxygen. By Ernest F. Fiock and Carl H. Roeder. (Twenty-second Annual, 1936)	.10
655	The Knocking Characteristics of Fuels in Relation to Maximum Permissible Performance of Aircraft Engines. By A. M. Rothrock and Arnold E. Biermann. (Twenty-fifth Annual, 1939)	.10

FUELS—Continued

No.	Title	Price
682	Flame Speeds and Energy Considerations for Explosions in a Spherical Bomb. By Ernest F. Fiock, Chas. F. Marvin, Jr., Frank R. Caldwell and Carl H. Roeder. (Twenty-sixth Annual, 1940)	------

GASES

No.	Title	Price
[3] 40	The Ferrosilicon Process for the Generation of Hydrogen. (Fourth Annual, 1918) Part I. Generation of Hydrogen from Ferrosilicon and Sodium Hydroxide. By E. R. Weaver, W. M. Berry, and B. L. Bohnson. Part II. The Effect of the Presence of Sodium Carbonate on the Generation of Hydrogen from Ferrosilicon and Sodium Hydroxide. By E. R. Weaver and B. D. Gordon. Part III. The Use of Lime in the Generation of Hydrogen by the Use of Ferrosilicon. By B. D. Gordon.	------
41	Testing of Balloon Gas. By Junius David Edwards. (Fourth Annual, 1918)	$0. 05

HELICOPTERS

No.	Title	Price
[3] 80	Stability of the Parachute and Helicopter. By H. Bateman. (Fifth Annual, 1919)	------

INSTRUMENTS

No.	Title	Price
[1] 2	Investigation of Pitot Tubes. By the United States Bureau of Standards. (First Annual, 1915) Part I. The Pitot Tube and Other Anemometers for Aeroplanes. By W. H. Herschel. Part II. The Theory of the Pitot and Venturi Tubes. By E. Buckingham.	------

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INSTRUMENTS—Continued

No.	Title	Price
[3] 8	General Specifications Covering Requirements of Aeronautic Instruments. By National Advisory Committee for Aeronautics. (Second Annual, 1916)	------
31	Development of Air Speed Nozzles. By A. F. Zahm. (Fourth Annual, 1918)	$0. 10
32	The Airplane Tensiometer. By L. J. Larson. (Fourth Annual, 1918)	. 05
[3] 50	Calculation of Low-Pressure Indicator Diagrams. By E. C. Kemble. (Fourth Annual, 1918)	------
[3] 81	Comparison of United States and British Standard Pitot-Static Tubes. By A. F. Zahm and R. H. Smith. (Fifth Annual, 1919)	------
94	The Efficiency of Small Bearings in Instruments of the Type Used in Aircraft. By F. H. Norton. (Sixth Annual, 1920)	. 05
[3] 99	Accelerations in Flight. By F. H. Norton and E. T. Allen. (Sixth Annual, 1920)	------
[3] 100	Accelerometer Design. By F. H. Norton and Edward P. Warner. (Sixth Annual, 1920)	------
[3] 107	A High-Speed Engine Pressure Indicator of the Balanced Diaphragm Type. By H. C. Dickinson and F. B. Newell. (Sixth Annual, 1920)	------
[3] 110	The Altitude Effect on Air Speed Indicators. By Mayo D. Hersey, Franklin L. Hunt, and Herbert N. Eaton. (Sixth Annual, 1920)	------
125	Aeronautic Instruments: Section I—General Classification of Instruments and Problems, Including Bibliography. By Mayo D. Hersey, Bureau of Standards. (Seventh Annual, 1921)	. 05
126	Aeronautic Instruments: Section II—Altitude Instruments. By Bureau of Standards. (Seventh Annual, 1921) Part I. Altimeters and Barographs. By A. H. Mears, H. B. Henrickson, and W. G. Brombacher. Part II. Precision Altimeter Design. By John B. Peterson and John R. Freeman, Jr. Part III. Statoscopes and Rate-of-Climb Indicators. By Atherton H. Mears. Part IV. Aerographs and Strut Thermometers. By John A. C. Warner.	. 25

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INSTRUMENTS—Continued

No.	Title	Price
127	Aeronautic Instruments: Section III—Aircraft Speed Instruments. By F. L. Hunt and H. O. Stevens, Bureau of Standards. (Seventh Annual, 1921) Part I. Air Speed Indicators. Part II. Testing of Air Speed Meters. Part III. Principles of Ground-Speed Instruments.	$0. 10
128	Aeronautic Instruments: Section IV—Direction Instruments. By Bureau of Standards. (Seventh Annual, 1921) Part I. Inclinometers and Banking Indicators. By W. S. Franklin and M. H. Stillman. Part II. The Testing and Use of Magnetic Compasses for Airplanes. By R. L. Sanford. Part III. Aircraft Compasses—Description and Classification. By John A. C. Warner. Part IV. Turn Indicators. By R. C. Sylvander and E. W. Rounds.	. 25
[3] 129	Aeronautic Instruments: Section V—Power Plant Instruments. By Bureau of Standards. (Seventh Annual, 1921) Part I. Airplane Tachometers. By G. E. Washburn. Part II. Testing of Airplane Tachometers. By R. C. Sylvander. Part III. Thermometers for Aircraft Engines. By E. F. Mueller and R. M. Wilhelm. Part IV. Air Pressure and Oil Pressure Gages. By H. N. Eaton. Part V. Gasoline Depth Gages and Flowmeters for Aircraft. By John A. C. Warner.	-----
130	Aeronautic Instruments: Section VI—Oxygen Instruments. By F. L. Hunt, Bureau of Standards. (Seventh Annual, 1921)	. 10

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132	Aeronautic Instruments: Section VIII—Recent Developments and Outstanding Problems. By F. L. Hunt, Bureau of Standards. Seventh Annual, 1921)	. 05
[3] 156	The Altitude Effect on Air Speed Indicators—II. By H. N. Eaton and W. A. MacNair. (Eighth Annual, 1922)	------
[3] 160	An Airship Slide Rule. By E. R. Weaver and S. F. Pickering. (Ninth Annual, 1923)	------
[3] 165	Diaphragms for Aeronautic Instruments. By M. D. Hersey. (Ninth Annual, 1923)	------
[3] 166	The Aerodynamic Plane Table. By A. F. Zahm. (Ninth Annual, 1923)	------
176	A Constant-Pressure Bomb. By F. W. Stevens. (Ninth Annual, 1923)	. 05
198	Astronomical Methods in Aerial Navigation. By K. Hilding Beij. (Tenth Annual, 1924)	. 15
199	Interference Tests on an N. A. C. A. Pitot Tube. By Elliott G. Reid. (Tenth Annual, 1924)	. 05
[3] 206	Nonmetallic Diaphragms for Instruments. By H. N. Eaton and C. T. Buckingham. (Tenth Annual, 1924)	------
264	Differential Pressures on a Pitot-Venturi and a Pitot-Static Nozzle over 360° Pitch and Yaw. By R. M. Bear. (Thirteenth Annual, 1927)	. 05
270	The Measurement of Pressure Through Tubes in Pressure Distribution Tests. By Paul E. Hemke. (Thirteenth Annual, 1927)	. 10
299	Investigation of Damping Liquids for Aircraft Instruments. By G. H. Keulegan. (Fourteenth Annual, 1928)	. 10
310	Pressure Element of Constant Logarithmic Stiffness for Temperature Compensated Altimeter. By W. G. Brombacher and F. Cordero. (Fifteenth Annual, 1929)	. 10

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INSTRUMENTS—Continued

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358	Temperature Coefficient of the Modulus of Rigidity of Aircraft Instrument Diaphragm and Spring Materials. By W. G. Brombacher and E. R. Melton. (Sixteenth Annual, 1930)	. 10
371	Present Status of Aircraft Instruments. By Subcommittee on Instruments, National Advisory Committee for Aeronautics. (Seventeenth Annual, 1931)	. 15
388	Investigation of the Diaphragm Type Pressure Cell. By Theodore Theodorsen. (Seventeenth Annual, 1931)	. 10
398	Investigation of Damping Liquids for Aircraft Instruments—II. By M. R. Houseman and G. H. Keulegan. (Seventeenth Annual, 1931)	. 15
420	Aircraft Speed Instruments. By K. Hilding Beij. (Eighteenth Annual, 1932)	. 10
448	Improved Apparatus for the Measurement of Fluctuations of Air Speed in Turbulent Flow. By W. C. Mock, jr., and H. L. Dryden. (Nineteenth Annual, 1933)	. 10
466	Aircraft Power-Plant Instruments. By Harcourt Sontag and W. G. Brombacher. (Nineteenth Annual, 1933)	. 15
513	Experimental Investigation of the Robinson-Type Cup Anemometer. By M. J. Brevoort, and U. T. Joyner. (Twenty-first Annual, 1935)	. 10
524	A Turbulence Indicator Utilizing the Diffusion of Heat. By G. B. Schubauer. (Twenty-first Annual, 1935)	. 05
551	Aircraft Compass Characteristics. By John B. Peterson and Clyde W. Smith, (Twenty-second Annual, 1936)	. 10
598	Alternating-Current Equipment for the Measurement of Fluctuations of Air Speed in Turbulent Flow. By W. C. Mock, jr. (Twenty-third Annual, 1937)	. 10

INSTRUMENTS—Continued

No.	Title	Price
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666	Aircraft Rate-of-Climb Indicators. By Daniel P. Johnson. (Twenty-fifth Annual, 1939)	. 10

MATERIALS

No.	Title	Price
[1] 5	Relative Worth of Improvements on Fabrics. By the Goodyear Tire and Rubber Company. (First Annual, 1915)	------
[1] 6	Investigations of Balloon and Aeroplane Fabrics. By The United States Rubber Company. (First Annual, 1915)	------
	Part I. Balloon and Aeroplane Fabrics. By Willis A. Gibbons and Omar H. Smith.	
	Part II. Skin Friction of Various Surfaces in Air. By Willis A. Gibbons.	
[1] 16	The Stretching of the Fabric and the Deformation of the Envelope in Nonrigid Balloons. (Third Annual, 1917)	------
	Part I. The Stretching of the Fabric and the Shape of the Envelope. By Rudolf Haas.	
	Part II. The Deformation of the Envelope of the Siemens-Schuckert Airships. By Alexander Dietzius.	
[1] 22	Fabrics for Aeronautic Construction. By Subcommittee on Standardization and Investigation of Materials. (Third Annual, 1917)	------
	Part I. Cotton Airplane Fabrics.	
	Part II. Balloon Fabrics.	
[3] 33	Self-Luminous Materials. By N. E. Dorsey. (Fourth Annual, 1918)	------
[3] 34	Aluminum and Its Light Alloys. By Paul D. Merica. (Fourth Annual, 1918)	------
[1] 36	The structure of Airplane Fabrics. By E. Dean Walen. (Fourth Annual, 1918)	------

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No.	Title	Price
[3] 37	Fabric Fastenings. By E. Dean Walen and R. T. Fisher. (Fourth Annual, 1918)	------
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[3] 65	The Kiln Drying of Woods for Airplanes. By Harry D. Tieman. (Fifth Annual, 1919)	------
[3] 66	Glues Used in Airplane Parts. By S. W. Allen and T. R. Truax. (Fifth Annual, 1919)	------
[3] 67	Supplies and Production of Aircraft Woods. By W. N. Sparhawk. (Fifth Annual, 1919)	------
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[3] 84	Data on the Design of Plywood for Aircraft. By Armin Elmendorf. (Sixth Annual, 1920)	------
[3] 85	Moisture Resistant Finishes for Airplane Woods. By M. E. Dunlap. (Sixth Annual, 1920)	------
248	The Corrosion of Magnesium and of the Magnesium Aluminum Alloys Containing Manganese. By J. A. Boyer. (Twelfth Annual 1926)	. 20
[3] 354	Aircraft Woods: Their Properties, Selection, and Characteristics. By L. J. Markwardt. (Sixteenth Annual, 1930)	------
490	The Weathering of Aluminum Alloy Sheet Materials Used in Aircraft. By Willard Mutchler. (Twentieth Annual, 1934)	. 15
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[1] 4	Preliminary Report on the Problem of the Atmosphere in Relation to Aeronautics. By Charles F. Marvin. (First Annual, 1915)	------
[3] 13	Meteorology and Aeronautics. By Wm. R. Blair. (Third Annual, 1917) Part I. Physical Properties and Dynamics of the Atmosphere. Part II. Topographic and Climatic Factors in Relation to Aeronautics. Part III. Current Meteorology and Its Use.	------
[3] 147	Standard Atmosphere. By Willis Ray Gregg. (Eighth Annual, 1922)	------
[1] 216	The Reduction of Airplane Flight-Test Data to Standard Atmosphere Conditions. By Walter S. Diehl and E. P. Lesley. (Eleventh Annual, 1925)	------
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[3] 246	Tables for Calibrating Altimeters and Computing Altitudes Based on the Standard Atmosphere. By W. G. Brombacher. (Twelfth Annual, 1926)	------
376	Some Approximate Equations for the Standard Atmosphere. By Walter S. Diehl. (Seventeenth Annual, 1931)	. 15
538	Altitude-Pressure Tables Based on the United States Standard Atmosphere. By W. G. Brombacher. (Twenty-first Annual, 1935)	. 10

MISCELLANEOUS

No.	Title	Price
[3] 308	Aircraft Accidents—Methods of Analysis. By the Special Committee on the Nomenclature, Subdivision, and Classification of Aircraft Accidents, National Advisory Committee for Aeronautics. (Fourteenth Annual, 1928)	------

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MISCELLANEOUS—Continued

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357	Aircraft Accidents—Method of Analysis. By the Committee on Aircraft Accidents, National Advisory Committee for Aeronautics. (Sixteenth Annual, 1930)	$0. 10
576	Aircraft Accidents—Method of Analysis. Report prepared by Committee on Aircraft Accidents, National Advisory Committee for Aeronautics. (Twenty-second Annual, 1936)	. 10

NOMENCLATURE

[1] 9	Nomenclature for Aeronautics. By National Advisory Committee for Aeronautics. (Second Annual, 1916)	------
[3] 15	Nomenclature for Aeronautics. By National Advisory Committee for Aeronautics. (Third Annual, 1917)	------
[3] 25	Nomenclature for Aeronautics. By National Advisory Committee for Aeronautics. (Fourth Annual, 1918)	------
[3] 91	Nomenclature for Aeronautics. By National Advisory Committee for Aeronautics. (Sixth Annual, 1920)	------
[3] 157	Nomenclature for Aeronautics. By National Advisory Committee for Aeronautics. (Eighth Annual, 1922)	------
[3] 240	Nomenclature for Aeronautics. By National Advisory Committee for Aeronautics. (Twelfth Annual, 1926)	------
474	Nomenclature for Aeronautics. By National Advisory Committee for Aeronautics. (Nineteenth Annual, 1933) NOTE—Reports 9, 15, 25, 91, 157, and 240 are obsolete.	$0. 20

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PARACHUTES

No.	Title	Price
[3] 80	Stability of the Parachute and Helicopter. By H. Bateman. (Fifth Annual, 1919)	------

PROPELLERS

[3] 14	Experimental Research on Air Propellers. By William F. Durand. (Third Annual, 1917) Part I. The Aerodynamic Laboratory at Leland Stanford Junior University and the Equipment Installed with Special Reference to Tests on Air Propellers. Part II. Tests on 48 Model Forms of Air Propellers, with Analysis and Discussion of Results and Presentation of the Same in Graphic Form. Part III. A Brief Discussion of the Law of Similitude as Affecting the Relation Between the Results Derived from Model Forms and Those to be Anticipated from Full-sized Forms.	------
[1] 19	Periodic Stresses in Gyroscopic Bodies with Applications to Air Screws. By A. F. Zahm. (Third Annual, 1917) Part I. The Gyroscopic Particle. Part II. The Gyroscopic Three-Dimensional Body.	------
[3] 29	The General Theory of Blade Screws. Including Propellers, Fans, Helicopter Screws, Helicoidal Pumps, Turbo-Motors, and Different Kinds of Helicoidal Brakes. By George de Bothezat. (Fourth Annual, 1918)	------
[1] 30	Experimental Research on Air Propellers, II. By William F. Durand and E. P. Lesley. (Fourth Annual, 1918)	------
64	Experimental Research on Air Propellers, III. By W. F. Durand and E. P. Lesley. (Fifth Annual, 1919)	$0. 10

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PROPELLERS—Continued

No.	Title	Price
[3] 109	Experimental Research on Air Propellers, IV. By W. F. Durand and E. P. Lesley. (Sixth Annual, 1920)	------
71	Slip-Stream Corrections in Performance Computation. By Edward P. Warner. (Fifth Annual, 1919)	$0. 05
[3] 113	Tests on Air Propellers in Yaw. By W. F. Durand and E. P. Lesley. (Seventh Annual, 1921)	------
[3] 141	Experimental Research on Air Propellers, V. By W. F. Durand and E. P. Lesley. (Eighth Annual, 1922)	------
[3] 168	The General Efficiency Curve for Air Propellers. By Walter S. Diehl. (Ninth Annual, 1923)	------
175	Analysis of W. F. Durand's and E. P. Lesley's Propeller Tests. By Max M. Munk. (Ninth Annual, 1923)	. 05
[3] 177	The Effect of Slipstream Obstructions on Air Propellers. By E. P. Lesley and B. M. Woods. (Ninth Annual, 1923)	------
[3] 178	Relative Efficiency of Direct and Geared Drive Propellers. By Walter S. Diehl. (Ninth Annual, 1923)	------
[3] 183	The Analysis of Free Flight Propeller Tests and Its Application to Design. By Max M. Munk. (Ninth Annual, 1923)	------
[3] 186	The Application of Propeller Test Data to Design and Performance Calculations. By Walter S. Diehl. (Tenth Annual, 1924)	------
[3] 196	Comparison of Model Propeller Tests with Airfoil Theory. By W. F. Durand and E. P. Lesley. (Tenth Annual, 1924)	------
220	Comparison of Tests on Air Propellers in Flight with Wind-Tunnel Model Tests on Similar Forms. By W. F. Durand and E. P. Lesley. (Eleventh Annual, 1925)	. 15
[3] 235	Interaction between Air Propellers and Airplane Structures. By W. F. Durand. (Twelfth Annual, 1926)	------
237	Tests on Thirteen Navy Type Model Propellers. By W. F. Durand. (Twelfth Annual, 1926)	. 10

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301	Full-Scale Tests of Wood Propellers on a VE-7 Airplane in the Propeller Research Tunnel. By Fred E. Weick. (Fourteenth Annual, 1928)	.15
302	Full-Scale Tests on a Thin Metal Propeller at Various Tip Speeds. By Fred E. Weick. (Fourteenth Annual, 1928)	.10
306	Full-Scale Wind-Tunnel Tests of a Series of Metal Propellers on a VE-7 Airplane. By Fred E. Weick. (Fourteenth Annual, 1928)	.10
326	Tests of Five Metal Model Propellers with Various Pitch Distributions in a Free Wind Stream and in Combination with a Model VE-7 Fuselage. By E. P. Lesley and Elliott G. Reid. (Fifteenth Annual, 1929)	.15
338	The Effect of Reduction Gearing on Propeller-Body Interference as Shown by Full Scale Wind Tunnel Tests. By Fred E. Weick. (Sixteenth Annual, 1930)	.15
339	Full-Scale Wind-Tunnel Tests with a Series of Propellers of Different Diameters on a Single Fuselage. By Fred E. Weick. (Sixteenth Annual, 1930)	.15
340	Full-Scale Wind-Tunnel Tests on Several Metal Propellers Having Different Blade Forms. By Fred E. Weick. (Sixteenth Annual, 1930)	.10
[3] 350	Working Charts for the Selection of Aluminum Alloy Propellers of a Standard Form to Operate with Various Aircraft Engines and Bodies. By Fred E. Weick. (Sixteenth Annual, 1930)	-----
351	Full-Scale Wind-Tunnel Tests of a Propeller with the Diameter Changed by Cutting Off the Blade Tips. By Donald H. Wood. (Sixteenth Annual, 1930)	.15

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PROPELLERS—Continued

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378	Comparison of Full-Scale Propellers Having R. A. F.–6 and Clark Y Airfoil Sections. By Hugh B. Freeman. (Seventeenth Annual, 1931)	. 10
389	The Effect of Small Angles of Yaw and Pitch on the Characteristics of Airplane Propellers. By Hugh B. Freeman. (Seventeenth Annual, 1931)	. 10
415	Tests of Nacelle-Propeller Combinations in Various Positions with Reference to Wings. Part I—Thick Wing—N. A. C. A. Cowled Nacelle—Tractor Propeller. By Donald H. Wood. (Eighteenth Annual, 1932)	. 10
421	Measurement of the Differential and Total Thrust and Torque of Six Full-Scale Adjustable-Pitch Propellers. By George W. Stickle. (Eighteenth Annual, 1932)	. 10
436	Tests of Nacelle-Propeller Combinations in Various Positions with Reference to Wings. II—Thick Wing—Various Radial-Engine Cowlings—Tractor Propeller. By Donald H. Wood. (Eighteenth Annual, 1932)	. 10
447	Static Thrust of Airplane Propellers. By Walter S. Diehl. (Nineteenth Annual, 1933)	. 10
462	Tests of Nacelle-Propeller Combinations in Various Positions with Reference to Wings III—Clark Y Wing—Various Radial-Engine Cowlings—Tractor Propeller. By Donald H. Wood. (Nineteenth Annual, 1933)	. 10
464	Negative Thrust and Torque Characteristics of an Adjustable-Pitch Metal Propeller. By Edwin P. Hartman. (Nineteenth Annual, 1933)	. 05
481	Working Charts for the Determination of Propeller Thrust at Various Air Speeds. By Edwin P. Hartman (Twentieth Annual, 1934)	. 10
505	Tests of Nacelle-Propeller Combinations in Various Positions with Reference to Wings. IV—Thick Wing—Various Radial-Engine Cowlings—Tandem Propellers. By James G. McHugh. (Twentieth Annual, 1934)	. 15

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No.	Title	Price
506	Tests of Nacelle-Propeller Combinations in Various Positions with Reference to Wings. V—Clark Y Biplane Cellule—N. A. C. A. Cowled Nacelle—Tractor Propeller. By E. Floyd Valentine. (Twentieth Annual, 1934)	$0. 10
507	Tests of Nacelle-Propeller Combinations in Various Positions with Reference to Wings. VI—Wings and Nacelles with Pusher Propeller. By Donald H. Wood and Carlton Bioletti. (Twentieth Annual, 1934)	. 10
564	Tests of a Wing-Nacelle-Propeller Combination at Several Pitch Settings up to 42°. By Ray Windler. (Twenty-second Annual, 1936)	. 10
569	Wing-Nacelle-Propeller Interference for Wings of Various Spans—Force and Pressure-Distribution Tests. By Russell G. Robinson and William H. Herrnstein, Jr. (Twenty-second Annual, 1936)	. 10
594	Characteristics of Six Propellers Including the High-Speed Range. By Theodore Theodorsen, George W. Stickle, and M. J. Brevoort. (Twenty-third Annual, 1937)	. 15
597	Air Propellers in Yaw. By E. P. Lesley, George F. Worley and Stanley Moy. (Twenty-third Annual, 1937)	. 10
599	Flight Tests of the Drag and Torque of the Propeller in Terminal-Velocity Dives. By Richard V. Rhode and Henry A. Pearson. (Twenty-third Annual, 1937)	. 10
639	The Effect of Compressibility on Eight Full-Scale Propellers Operating in the Take-Off and Climbing Range. By David Biermann and Edwin P. Hartman. (Twenty-fourth Annual, 1938)	. 10
640	The Aerodynamic Characteristics of Full-Scale Propellers Having 2, 3, and 4 Blades of Clark Y and R. A. F. 6 Airfoil Sections. By Edwin P. Hartman and David Biermann. (Twenty-fourth Annual, 1938)	. 10
641	The Negative Thrust and Torque of Several Full-Scale Propellers and Their Application to Various Flight Problems. By Edwin P. Hartman and David Biermann. (Twenty-fourth Annual, 1938)	. 10

PROPELLERS—Continued

No.	Title	Price
642	Tests of Five Full-Scale Propellers in the Presence of a Radial and a Liquid-Cooled Engine Nacelle, Including Tests of Two Spinners. By David Biermann and Edwin P. Hartman. (Twenty-fourth Annual, 1938)	$0. 10
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